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Date: 05/04/05 MLRA: 52XC Ecological Site: Thin Hilly 10-14" p.z. This *must* be verified based on soils and climate (see Ecological Site Description). Current plant community *cannot* be used to identify the ecological site.

<p><b>Indicators.</b> For each indicator, describe the potential for the site. Where possible, (1) use numbers, (2) include expected range of values for above- and below-average years for <b>each</b> community within the reference state, when appropriate &amp; (3) cite data. Continue descriptions on separate sheet.</p>
<p><b>1. Number and extent of rills:</b> Rills should not be present. (Slopes 15% or greater)</p>
<p><b>2. Presence of water flow patterns:</b> Barely observable.</p>
<p><b>3. Number and height of erosional pedestals or terracettes:</b> None.</p>
<p><b>4. Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are <i>not</i> bare ground):</b> Bare ground 10 to 15% consisting of randomly scattered small patches no greater than 2 inches in diameter. Rocks could account for 5% of the ground cover.</p>
<p><b>5. Number of gullies and erosion associated with gullies:</b> None.</p>
<p><b>6. Extent of wind scoured, blowouts and/or depositional areas:</b> None.</p>
<p><b>7. Amount of litter movement (describe size and distance expected to travel):</b> Little to no plant litter movement. Plant litter remains in place and is not moved by erosional forces.</p>
<p><b>8. Soil surface (top few mm) resistance to erosion (stability values are averages – most sites will show a range of values for both plant canopy and interspaces, if different):</b> Plant cover and litter is at 85% or greater of soil surface and maintains soil surface integrity. Stability class anticipated to be 2 – 4.</p>
<p><b>9. Soil surface structure and SOM content (include type and strength of structure, and A-horizon color and thickness for both plant canopy and interspaces, if different):</b> Use soil series description for depth and color of A-horizon.</p>
<p><b>10. Effect of plant community composition (relative proportion of different functional groups) &amp; spatial distribution on infiltration &amp; runoff:</b> High grass canopy and basal cover and small gaps between plants should reduce raindrop impact and slow overland flow, providing increased time for infiltration to occur. Healthy, deep rooted native grasses enhance infiltration and reduce runoff. Infiltration rates are moderate to moderately slow.</p>
<p><b>11. Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site):</b> None.</p>
<p><b>12. Functional/Structural Groups (list in order of descending dominance by above-ground weight using symbols: &gt;&gt;, &gt;, = to indicate much greater than, greater than, and equal to):</b> Mid-stature, cool season bunch grasses &gt; mid-stature, cool season rhizomatous grasses &gt; mid-stature, warm season bunch grasses &gt; shrubs &gt; forbs</p>
<p><b>13. Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence):</b> Very low.</p>
<p><b>14. Average percent litter cover (45 to 55 %) and depth ( 0.5 to 0.75 inches).</b> Litter cover is in contact with soil surface.</p>
<p><b>15. Expected annual production (this is TOTAL above-ground production, not just forage production):</b> 900 - 1300 #/acre.</p>
<p><b>16. Potential invasive (including noxious) species (native and non-native). List species which characterize degraded states and which, after a threshold is crossed, “can, and often do, continue to increase regardless of the management of the site and may eventually dominate the site”:</b> Needle and thread, threadleaf sedge, Hood’s phlox, prickly pear, creeping juniper, fringed sagewort, blue grama.</p>
<p><b>17. Perennial plant reproductive capability:</b> All species are capable of reproducing.</p>